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(54) Title: CATALYTIC PARTIAL OXIDATION PROCESS FOR PRODUCING SYNTHESIS GAS

(57) Abstract: Partial oxidation process of liquid fuels, selected from hydrocarbon and/or oxygenated compounds, together with gaseous fuels, selected from hydrocarbon compounds, natural gas and LPG, by means of a suitable catalytic system comprising the following steps: premixing the reagents and possibly heating them to temperatures ranging from 25 to 400 °C, said reagents consisting of said liquid fuels, said gaseous fuels and oxygen or air or oxygen enriched air, optionally in the presence of vapour and/or CO₂; reacting the mixture of reagents in the catalytic zone, at inlet temperatures ranging from 50 to 500 °C and space velocities ranging from 1,000 to 1,000,000 NI reagents/L cat x h, reaching temperatures ranging from 450 to 1350 °C.



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